United States Army Logistics Transformation Agency



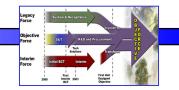




Background

- Since Our Last Briefing
 - SBCT PoE Campaign Plan Has Been Very Successful
 - Established the Importance of the SBCT PoE
 - Led to the "Piling on Effect", Increased Scope
 - Increased the Risk of the SBCT PoE Technical Test & Demo (Cost & Schedule)
 - No Active Duty Green Suiters Support Available for Technical Test & Demo
- Result Has Led Us to Reconsider Our Direction Forward



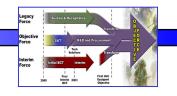


CLOE Corporate Brief

Agenda

- Motivation Logistics Transformation
- Purpose
- Scope
- Principles
- Organization
- SIL Operation
- Milestones
- Benefits & Conclusion





LOGISTICS TRANSFORMATION

Doctrine and Technology Must Be Interoperable for Platform & Soldier Health Management across All Equipment

Generations

Army of Excellence Force

FXXI Force

Stryker Force

Future Combat Systems

Transformati on Enablers Generations of Forces
Common Logistics
Operating Environment

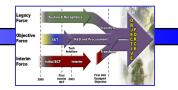
Objectiv e Force

EMBEDDED DIAGNOST
EMBEDDED DIAGNOST
AUTOMATED LOGBOOOK
Digital PMCS
ON-BOARD Health Mgr
Integrated COM & ERP
Interfaces
UDSS
UDSS

ing Army

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CLOE Purpose

The Purpose Of CLOE Is To Ensure Sustainment Interoperability Among Self Reporting, Self-Diagnosing Platforms And The Objective Force Sustainment System Network To Provide The Highest Possible State Of

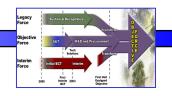
Operational Availability

Mission Capability

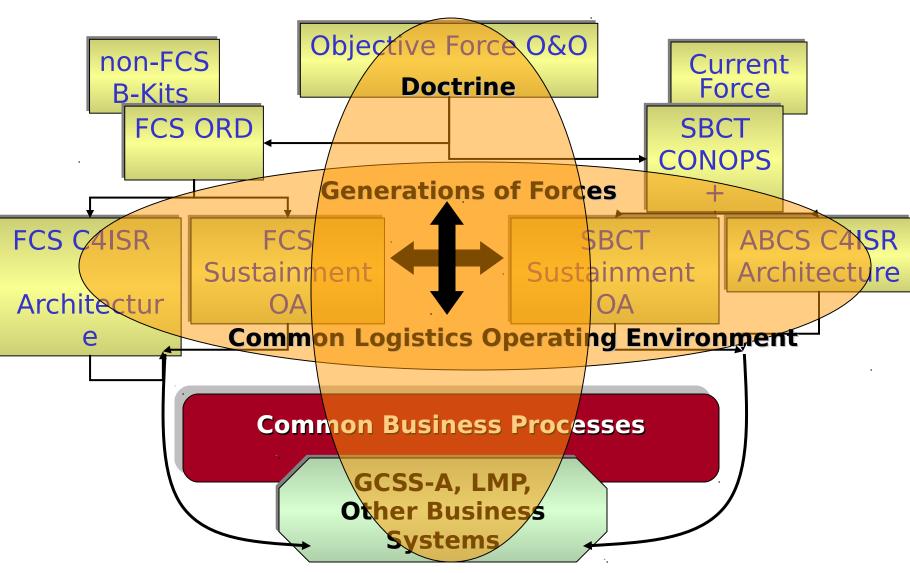
Combat Power

While Reducing The Logistics Footprint



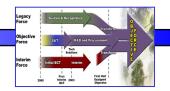


CLOE SCOPE



Sustaining The Transforming Army



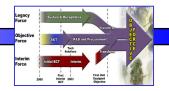


CLOE Principles

- Work With All Army Staffs, Agencies And Programs To Synchronize & Integrate Sustainment Doctrine And Technology To Provide Condition-Based Maintenance And Anticipatory Logistics For The Objective Force
- Ensure Sustainment System & Platform Interoperability Across All Force Generations In The Objective Force
- Reduce the Logistics Footprint
- Minimize Risk For Log Transformation



CLOE Program Execution



CLOE Strategy Paper

 Developed by LTA & G-4



- High-Level Overview
- Signed by G-4

3. Army Asst Sec. of Acquisition **Policy Memo**

- Reviewed Annually
- CLOE CONOPS

4. Management

- Detailed Plan
- GOSC Structure
- Establish CCB Process
- Establish CLOE SIL

5.

Implementation

- Detailed all an
- Continuously updated
- Signed by G-4 &

6. Architecture

- Working by Saments
- Updated During Each Phase of Transformation Development

CLOE Provides the Synergy for

Logistics Transformation

Addresses OF Increment



Unit of Action

Unit of **Employment** Commonality of Systems

Performance Based Logistics

Embedded Diagnostics & **Prognostics**

The right information, at the right time ar

- Program Management Structure
- Addresses Standards & Commonality
- Establishes Configuration Management
- Current Force Retirement plans
 - Guidance for PEOs/PMs

 - Migration of Current Force Migration to OF
 - Follows El Template

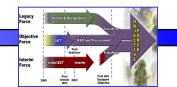
Embedded Diagnostic Baseline

Logistics Template for Current

• Relationship to GCSS-A/LMP & Stryker Forces, FCS & UA

Sustaining The Transforming Army

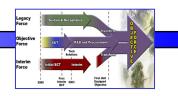




LOG Transformation Technical Risk

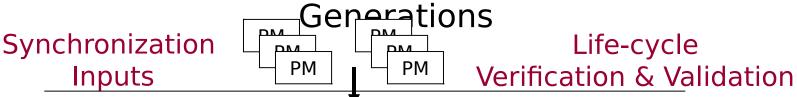
- Reduce Technical Risk For Log Transformation
 - Establish & Operate A CLOE Systems Integration Laboratory (SIL)
 - Evaluate Concepts
 - Verify & Validate Interfaces & Interoperability
 - Test Before Acquire/Field
 - Key Configuration Management Tool
 - Supports Simulation-based Acquisition
 - Standards-based Technology Insertion
 - Mobile SIL for Demonstrations





CLOE Systems Integration Lab

The CLOE SIL Operates as a Meta-Laboratory, Ensuring Interoperability Across All Equipment Force





Platform, C4ISR, Sustainment

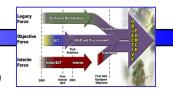
Architectures

- System Requirements
- Doctrine
- Operational Architecture

- Sustainment Interoperability
- Software & Hardware V&V
- Life Cycle Support

Platforms & Soldier Systems





CLOE Systems Integration Lab

The CLOE SIL Operates as a Meta-Laboratory, Ensuring Interoperability Across All Equipment Force

Synchronization Inputs



Life-cycle Verification & Validation

Operational Inputs-

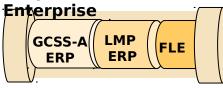


- <u>s</u> . . .
- System Requirements
- Doctrine
- Operational Architecture

Logistics Transformation Agency

- Coordinate with other Army Activities
- Manage SBCT PoE (+)
- Establish & Manage CLOE SIL
- Define Transformation Rgmts. by Version
- Establish and Set SIL Priorities
- Oversight for CCB
- Execute CLOE Exercises
- Manage UA B Kit implementation

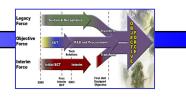
Outputs to the



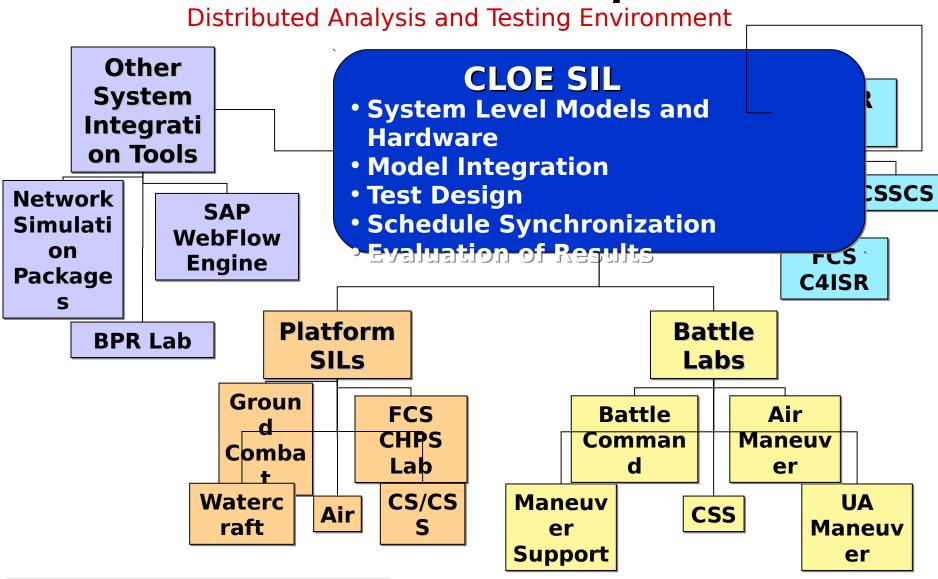
- Sustainment Interoperability
- Software & Hardware V&V
- Life Cycle Support

Platforms & Soldier Systems



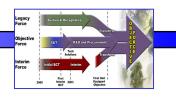


CLOE SIL Concept



Sustaining The Transforming Army





CLOE SIL Versions

The CLOE SIL Starts With the SBCT PoE Operational Architecture and Adds Increasing Scope Until It Encompasses All Army Commodity

Areas

CLOE Ground, Soldier & Air OALOE Operational Architecture, 3.0
GCSS-A (w/FCS) Aviation & GCSS-A/T

CLOE Ground & Soldier (w/FCS) OE Operational Architecture, 2.0 ICS3 & Soldier Systems

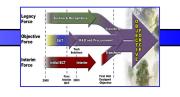
CLOE Ground OCLOE Operational Architecture, 1.0 (SBCT & Current)

SBCT OA



CLOE SIL Integration + Synchronization Tasks

Integration





ENABLERS

Current

Soldier

FCS

CLOE SIL

Sustainment Interoperability

for the OF

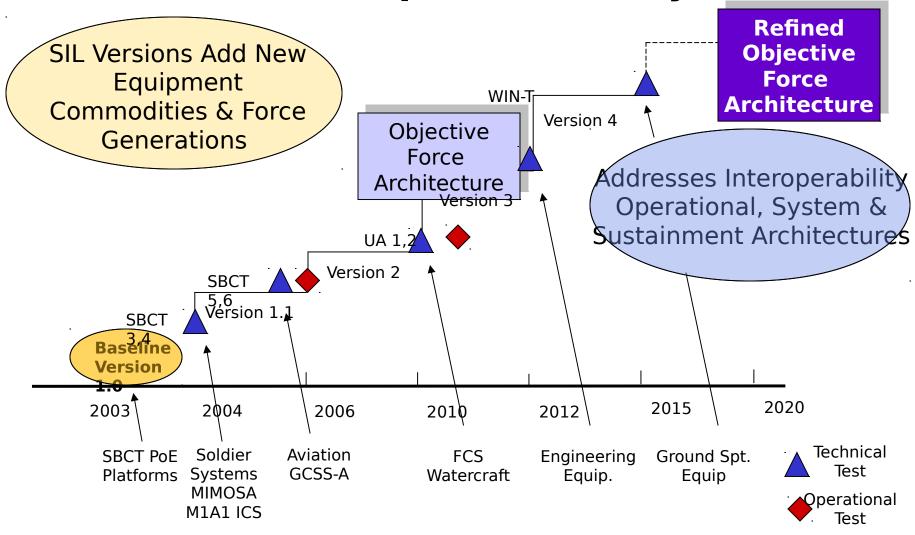




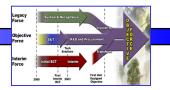
NetWeaver Hub
Product Lifecycle
Management (PLM)
Master Data
Management
Single source for Master Data
LMP

Common SW, APIs, Standards

CLOE SIL Continuous Improvement Cycle







SIL-Based PoE Demo

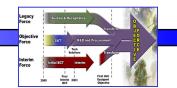
Advantages

- Save funds
 - (~\$1m) required to bring a Stryker up to BCT 3/4 configuration
 - Re-invest funds into integrating additional functionality
- Save cost of configuring Ft. Knox and getting all required demo equipment to Knox
 - Avoid cost of hosting VIP event at Ft. Knox
 - Avoid Facility Costs
 - Avoid problem of finding green suiters to support demo
 - Avoid safety release requirements
- Shorten Developmental Timelines & Overall Schedule
 - Can use additional time to conduct more extensive tests
 - Add additional Functionality (ICS3, Soldier-Warrior, Battery Prognostics)
- Reduce time commitment of senior officers.
 - Demo results can be presented in briefing
 - SII Tours & Mobile SII

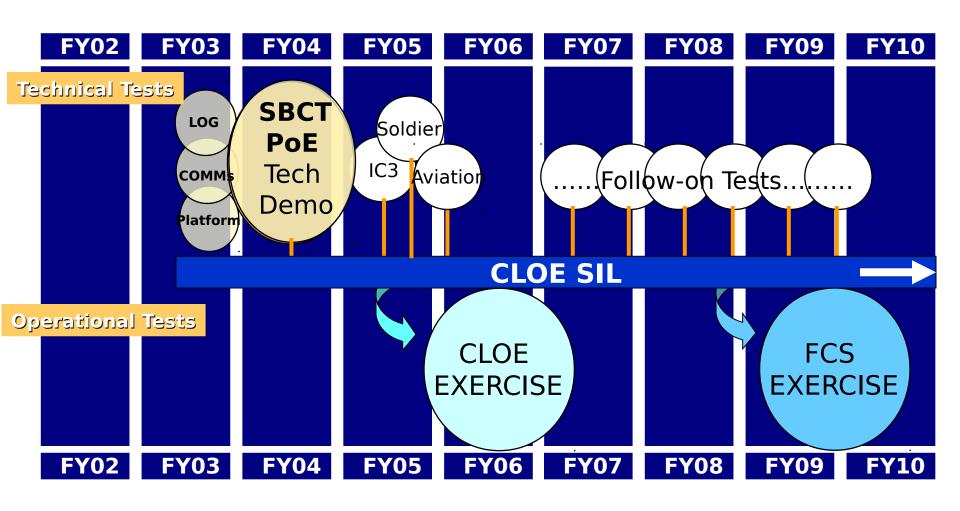
Disadvantages

- Already briefed as a full-blown demo



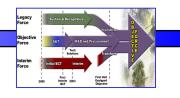


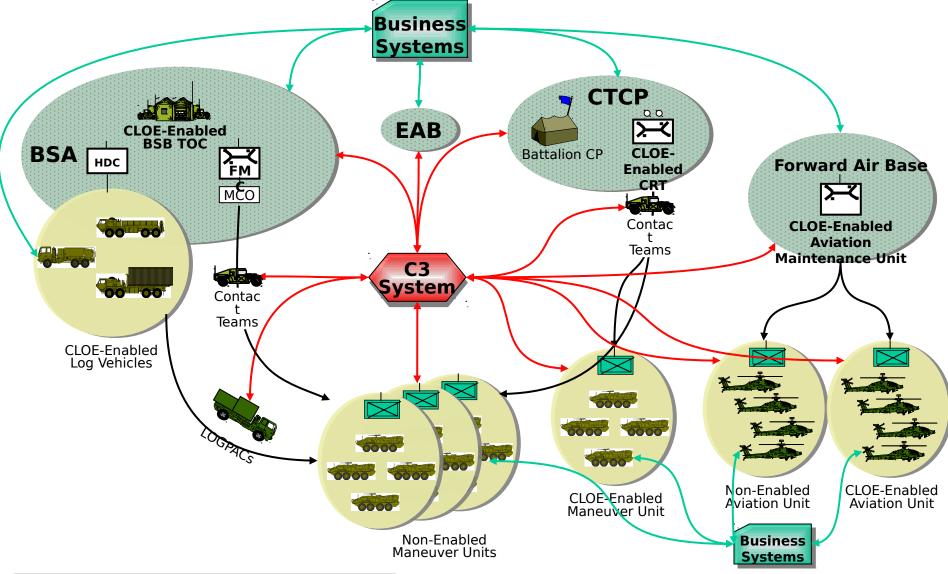
CLOE Major Milestone Schedule



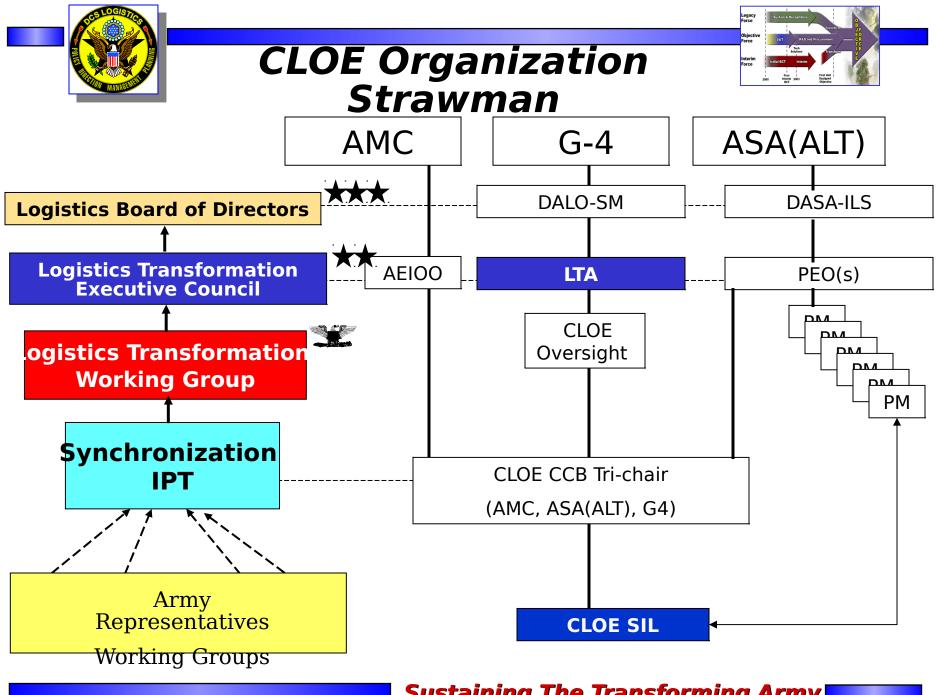


CLOE Exercise Concept

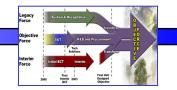




Sustaining The Transforming Army







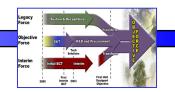
Benefits

- Provide Roles & Responsibilities for Centralized Management of Logistics Transformation Activities
- Establish One location for Army Logistics **Transformation** Synchronization and Integration Efforts
- Reduce Logistics Transformation Risk
 - Configuration Management Control linked to the

CCB Process

- Verify & Validate Technical Interoperability
- Prioritized CLOE SIL activities provides insight for POM Strategy
- Test Before Acquire/Field

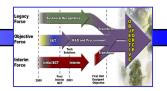




Thoughts to take away

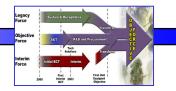
- CLOE Is A Collaborative, Living Process That Works With All Major Army Agencies, Organizations and Programs to Enable Logistics Transformation
- CLOE Is The Only Initiative That Addresses ARMY Sustainment Interoperability Among Current, Stryker And Objective Forces With Respect to Condition-Based Maintenance and Anticipatory Logistics
- The Synchronization of Sustainment Doctrine & Technology is an Outcome of the CLOE Process
- The Path For Platform Technology Insertion Goes Through the CLOE SIL





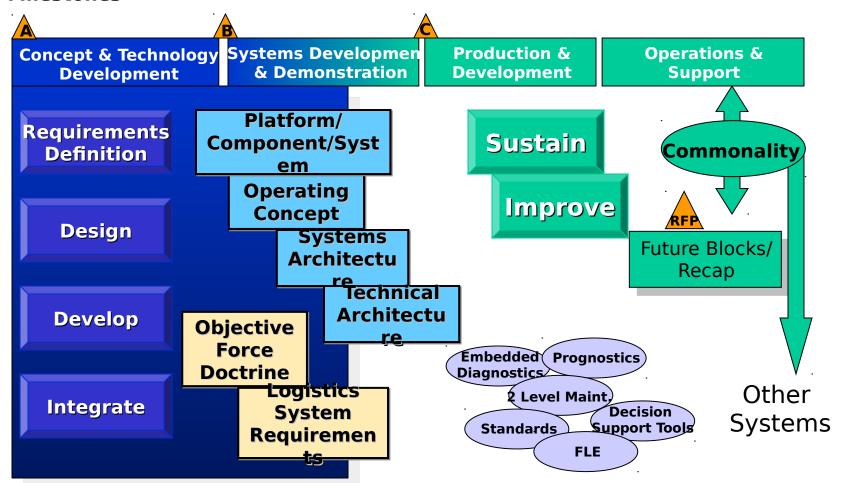
BACKUP





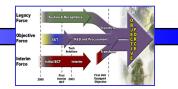
CLOE SIL Life Cycle

Milestones



Focus Process Enhancements on Sustainment Interoperability





Synchronizing Sustainment Doctrine & Technology

Sustainment Interoperability for the OF ☑ Product Life Cycle Data CLOE SIL* Management **Generations of** SAP **LMP Forces COE NetWeave** r Hub **UA Data GCSS Synchronization** Army **B-Kits** non-**FCS** Current Stryker **FCS** Mobile Apps *Systems Integration Laboratory